MSA1500HOME http://www.hp.com/go/msa1500cs	W2003 64-bit ↓	W2003 32-bit ↓	Windows 2000 Windows NT4 ↓	RED HAT LINUX (32-bit) ↓	RED HAT LINUX (64-bit) ↓	SuSE 8 (32-bit) ↓
GUIDE AS OF September, 2004	CONTROLLER FIRMWARE VERSION 4.82 or higher ONLY			TESTED AND SUPPORTED CONFIGURATIONS		
Operating Sytem Details	Windows Server 2003 Enterprise Edition (64-bit)	Windows Server 2003 Enterprise Edition	W2000 SP3, SP4	Red Hat Enterprise 2.1 2.4.9-e35, -e35smp	RH AS 2.1 QU4 (AS, ES) 2.4.19-e41, -e41smp	SUSE SLES8 32-bit 2.4.21-169-smp
				Red Hat Enterprise 3 U1 2.4.21-9.0.1EL 2.4.21-9.0.1ELSMP	RH EL 3.0 U1 (AS,ES,WS) 2.4.21-9EL, 2.4.21-9.0.1ELSMP	SUSE SLES 64-bit 2.4.21-112smp
HETEROGENEITY (concurrent access by different OSs)	none	W2003, W2K Linux: Red Hat or SuSE		W2003, W2K Linux: Red Hat	N/A	W2003, W2K Linux: SuSE
MAX NUMBER OF NODES[1]	2	20	20	20	20	20
# OF NODES IN A CLUSTER -SINGLE PATH-	2	8	2	16	N/A	16
# OF NODES IN A CLUSTER -W/ SECURE PATH-	2	8	2	2	N/A	N/A
# OF CLUSTERS (refer to Secure Path limitations if applicable)	one 2-node	four clusters (assorted size) or five 2-node [4]	five 2-node (see note) [4]	one 16-node or two 8-node	N/A	one 16-node or two 8-node
MIXING CLUSTERS AND INDIVIDUAL SERVERS	NO	YES	YES	YES	N/A	YES
MIXING SINGLE PATH AND DUAL PATH SERVERS	NO	YES [2] w/ restrictions. See footnote		NO [3]	N/A	NO [3]
MIXED OSs SINGLE PATH	NO	YES	YES	YES	NO	YES
MIXED OSs DUAL PATH (SECURE PATH)	NO	YES	YES	YES	N/A	NO

** Clustering is not supported until Q4 '04

[1] Performance can be substantially impacted by number of users and type of application

[2] If a single path server (W2K) is attached to an MSA that also has dual-path servers with Secure Path, the single path servers will lose access to the MSA should the primary controller become inactive.

[3] if a Linux server has Secure Path, all servers attached must have Secure Path

[4] Up to 20 nodes in a SAN – Includes but not limited to the following configurations: an 8-node, a 4-node, and two 2-nodes OR five 2-node clusters attached to one MSA1500. Five 2-node clusters can be attached only if nothing else is attached to the MSA1500, otherwise four 2-node clusters are supported
 ◆ Up to ten (10) total MSA1500s per SAN. Clustered nodes can attach to up to two (2) MSA1500s, single server nodes can attach to up to four MSA1500s

[6] No heterogeneity permitted if both Secure Path and LifeKeeper are employed with UL 1.0 or SUSE 8 with errata 304

	SUPPORTED SERVERS
	IMPORTANT: user must refer to http://welcome.hp.com/country/us/eng/prodserv/servers.html to confirm latest support of server models and operating systems
INTEL-BASED SERVERS	BL20p G2, BL40p, DL145, DL 360, DL380, DL560, DL580, DL585, DL740, DL750, DL760, ML350, ML370, ML530, ML570, ML570, ML750, (Model G2s, etc. included.) 64-bit: rx5670, zx6000, rx2600, rx4640, rx1600, Superdome Note: A variety of Industry-standard servers (including IBM, Dell, Fujitsu, and others) are supported in standalone and designated cluster configurations. Must use HP Branded server interface (Host Bus Adapter). Refer to MSA1500 Support CD for drivers and documentation.

HELPFUL WEB LINKS → HBAs | CLUSTERING | SECURE PATH | PROLIANT | SAN DESIGN GUIDE

MSA1500HOME http://www.hp.com/go/msa1500cs	W2003 64-bit ↓	W2003 32-bit ↓	Windows 2000 Windows NT4 ↓	RED HAT LINUX (32-bit) ↓	RED HAT LINUX (64-bit) ↓	SuSE 8 (32-bit) ↓
HOST BUS ADAPTERS						
refer to http://www.hp.com/go/SAN for complete Host Bus Adapter information						
FCA2101 **245299-B21**		Driver **5-5.10a10,**	Driver **5-5.10a10,**			
		Firmware: **3.92a2** BOOT BIOS **1.70a1**	Firmware: **3.92a2** BOOT BIOS **1.70a1**			
FCA2214 **281541-B21**		Driver **9.0.0.13**	Driver **9.0.0.13**	Driver **7.00.03**		Driver **7.00.03**
		FW **1.34**	FW **1.34**	FW **1.34**		FW **1.34**
FCA2214DC **321835-B21**		Driver **9.0.0.13**	Driver **9.0.0.13**	Driver **7.00.03**		Driver **7.00.03**
		FW **1.34**	FW **1.34**	FW **1.34**		FW **1.34**
FCA2404 **305573-B21**		Driver **5-5.10a10,**	Driver **5-5.10a10,**			
		FW: **1.90a4** Boot BIOS: **1.70a1**	FW: **1.90a4** Boot BIOS: **1.70a1**			
FCA2404DC **323264-B21**		Driver **5-5.10a10,**	Driver **5-5.10a10,**			
		FW: **1.90a4** Boot BIOS: **1.70a1**	FW: **1.90a4** Boot BIOS: **1.70a1**			
64-Bit/33MHz PC/FC 1Gb **176479-B21**		✔	✔			
A6826A (LINUX 64-bit)					Driver **7.00.03**	Driver **7.00.03**
					firmware **v3.02.168** EFI driver **v1.30**	firmware **v3.02.168** EFI driver **v1.30**
AB232A (Windows 64-bit)	Driver **6-5.10a10**					
	FW: **1.81a2**					
Boot from SAN support	**no**	**yes** [8]	**yes** [8]	**no**	**no**	**no**
INTERCONNECTS (Switches, hub)						
refer to http://www.hp.com/go/SAN for complete Fibre Channel switch information						
"B" SERIES SWITCHES						
"C" SERIES SWITCHES						
"M" SERIES SWITCHES						
RELATED SOFTWARE						
Secure Path Workgroup **Edition version**	**v4.0C**			**v3.0C**		**v3.0C**
F200 Microsoft Cluster Kit **includes 2 Secure Path licenses**						
F100 Microsoft Cluster Kit						
HP Service Guard®						
LifeKeeper version						
L100 Lifekeeper® Cluster kit						
HP OpenView **Storage Virtual Replicator®**		Hp OpenView Storage Virtual Replicator Web Site				
HP OpenView **Storage Mirroring®**		HP OpenView Storage Mirroring Web Site				